

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 67600 Polyvinyl Butyral 30

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Revised edition: 29.05.2020

Version: 07

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Polyvinyl Butyral 30

*Article No.:* 67600

*UFI:* --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Industrial application*  
*Additive/binder for primer, coatings, varnish, inks*

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* [www.kremer-pigmente.com](http://www.kremer-pigmente.com)

*E-Mail:* [info@kremer-pigmente.com](mailto:info@kremer-pigmente.com)

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation*  
*(EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation*  
*(EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

*Dust can irritate respiratory tract, skin and eyes.*

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*Exposure can cause watery eyes, red and stinging eyes.  
Dust may irritate throat and respiratory system and cause coughing.  
Prolonged skin contact may cause dry skin.  
Fine particles may form an explosive mixture with air. This material is not readily flammable; it is however recommended that precautions are taken against dust explosion.*

### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization: Polyvinyl butyral*

*Information on Components / Hazardous Ingredients:*

Polyvinyl butyral	> 97.5 %	CAS-Nr: 68648-78-2 EINECS-Nr: EC-Nr:
Water	< 2.5 %	CAS-Nr: 7732-18-5 EINECS-Nr: 231-791-2 EC-Nr:
Sodium chloride	< 0.05 %	CAS-Nr: 7647-14-5 EINECS-Nr: 231-598-3 EC-Nr:
Butyraldehyde (H225-319)	< 0.05 %	CAS-Nr: 123-72-8 EINECS-Nr: 204-646-6 EC-Nr: 605-006-00-2

*Additional information:*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Supply fresh air. Consult physician if symptoms persist.*

*After skin contact:*

*Wash off with plenty of water.  
If symptoms persist, consult a physician.*

*After eye contact:*

*Rinse eyes with water.  
Seek medical attention if irritation persists.*

*After ingestion:*

*Rinse mouth with plenty of water.  
If symptoms persist consult physician.*

#### 4.2. Most important Symptoms and Effects, both Acute and Delayed

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### Symptoms:

*Contact with dust: causes irritation of eyes mucous membrane, coughing.*

### Effects:

#### 4. 3. Indication of any Immediate Medical Attention and special Treatment needed

##### Treatment:

*Symptomatic treatment (decontamination, vital functions), no specific antidote known.*

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## 5. Fire-Fighting Measures

### 5. 1. Extinguishing Media

#### Suitable extinguishing media:

*Water mist, extinguishing powder, foam, carbon dioxide.*

#### Unsuitable extinguishing media:

*Water with full jet.*

### 5. 2. Special Hazards arising from the Substance or Mixture

#### Special hazards:

*The product is not flammable.  
Dust can form explosive mixtures with air.  
In case of fire: hazardous gases/vapors may be released.*

### 5. 3. Advice for Firefighters

#### Protective equipment:

*Wear self-contained respiratory protective device and full protective gear.*

#### Further information:

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## 6. Accidental Release Measures

### 6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

#### Personal precautions:

*Avoid contact with skin and eyes. Do not ingest or inhale.  
Wear protective clothing.*

### 6. 2. Environmental Precautions

#### Environmental precautions:

*Prevent contamination of soils, drains and surface water.  
Contact local authorities if product pollutes soil or vegetation.*

### 6. 3. Methods and Material for Containment and Cleaning Up

#### Methods and material:

*Sweep up, then place into a suitable container for disposal. Avoid generating dust.  
Collect powder using a special dust vacuum cleaner with particle filter and dispose in a adequate resealable container.*

### 6. 4. Reference to other Sections

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## 7. Handling and Storage

### 7. 1. Precautions for Safe Handling

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### *Instructions on safe handling:*

*Avoid contact with eyes and skin.*

*Do not swallow or inhale.*

*Avoid formation of dust.*

### *Hygienic measures:*

*Wash hands at the end of work. Preventive skin protection recommended.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

#### *Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

#### *Requirements for storage areas and containers:*

*Store the product in the original container.*

#### *Information on fire and explosion protection:*

*Take measures to prevent electrostatic discharge.*

#### *Storage class:*

#### *Further Information:*

### 7.3. Specific End Use(s)

#### *Further information:*

*See Section 1.2.; no other uses provided*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

#### *Parameters to be controlled (DE):*

*TRGS 900*

*TLV: 1.25 mg/m<sup>3</sup> air-borne fraction (general dust limit)*

*TLV: 10 mg/m<sup>3</sup> inhalable fraction (general dust limit)*

#### *Parameters to be controlled:*

*TWA: 4 mg/m<sup>3</sup> (inhalable dust); 0.3 mg/m<sup>3</sup> (respirable dust)*

#### *Derived No-Effect Level (DNEL):*

#### *Predicted No-Effect Concentration (PNEC):*

#### *Additional Information:*

*Biological limits: no limit values available for the ingredients of this product.*

### 8.2. Exposure Controls

#### *Technical protective measures:*

*Use local exhaust ventilation in case of dust and/or fume formation.*

*Provide adequate ventilation.*

#### *Personal Protection*

#### *General protective measures:*

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*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Wear protective mask, particle filter P2 or FFP2 or NIOSH N95 (for solid and liquid particles, EN 143, 149) if dust occurs.*

*Hand protection:*

*Chemical protective gloves (EN 374 (Europe), F739 (US)).*

*Protective glove material:*

*Nitrile rubber (NBR) (> 480 min, 0.12 mm)*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Environmental precautions:*

*Prevent from getting into the soil, surface water and sewage system.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>135 - 210°C (275-410°F)</i>
<i>Boiling temperature:</i>	<i>not available</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>not available</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>not applicable</i>

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*No information available.*

*Density:* 1.1 g/cm<sup>3</sup> (20°C)

*Solubility in water:* not determined

*Coefficient of variation (n-Octanol/Water):*  
no information available

*Auto-ignition temperature:* > 380°C (> 716°F)

*Decomposition temperature:*  
not applicable

*Viscosity, dynamic:*  
not available

*Explosive properties:*  
not applicable

*Oxidizing properties:*  
not oxidizing

*Bulk density:*  
not determined

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*  
% Volatile matter: < 2.5 % w/w

*Solid content:*

*Particle size:*

*Other information:*  
Dust explosion class: ST1  
Molecular weight: 234.25 g/mol

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### 10. Stability and Reactivity

10.1. Reactivity  
*Stable if used according to specifications.*

10.2. Chemical Stability  
*Stable if used according to specifications.*

10.3. Possibility of Hazardous Reactions  
*Hazardous polymerisation will not occur.*

10.4. Conditions to Avoid  
*Conditions to avoid:*  
*Avoid dusting near sources of ignition.*

*Thermal decomposition:*

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### 10.5. Incompatible Materials

*Strong acids and strong oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*Carbon oxides*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Acute Toxicity*

*No toxicity expected.*

*LD50, oral:*

*LD50, dermal:*

*LC50, inhalation:*

*Primary effects*

*Irritant effect on skin:*

*Dust may cause irritation.*

*Irritant effect on eyes:*

*Dust may irritate eyes.*

*Product dust may cause redness, tears and pain.*

*Inhalation:*

*Dust can irritate throat and respiratory tract thus causing cough.*

*Ingestion:*

*May cause indisposition.*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No mutagenic effects known.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No relevant data found.*

*Aspiration hazard*

*No risk of aspiration.*

### 11.2. Information on other Hazards

*Frequent long-term inhalation of dust increases the risk of asthma, pulmonary diseases and skin irritation.*

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## 12. Ecological Information

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### 12. 1. Aquatic Toxicity

*No toxicity expected.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12. 2. Persistency and Degradability

*Not biodegradable.*

### 12. 3. Bioaccumulation

*No bioaccumulation.*

### 12. 4. Mobility

*No information available.*

### 12. 5. Results of PBT- und vPvP Assessment

*Not classified as PBT substance / Not classified as a vPvB substance.*

### 12. 6. Endocrine Disrupting Properties

*Not listed.*

### 12. 7. Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No ecological problems expected.*

*No adverse effects on the environment are expected (e.g. ozone depletion, photochemical ozone creation potential, endocrine disorders, global warming potential).*

*AOX Value:*

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## 13. Disposal Considerations

### 13. 1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*070213 - Waste plastic*

*Waste codes should be assigned by the user based on the application for which the product was used.*

*Uncleaned packaging:*

*Contaminated packaging must be disposed like the substance.*

*Waste Code No.:*

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## 14. Transport Information

### 14. 1. UN Number

*ADR, IMDG, IATA*

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### 14.2. UN Proper Shipping Name

ADR/RID:

*No hazardous goods according to ADR / DOT (US) (land transportation).*

IMDG/IATA:

*Not hazardous goods*

### 14.3. Transport Hazard Classes

ADR Class:

*not applicable*

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

*not applicable*

Hazard no.:

EmS No.:

IATA Class:

*not applicable*

Hazard no.:

### 14.4. Packaging Group

ADR/RID:

*not applicable*

IMDG:

IATA:

### 14.5. Environmental Hazards

*None*

### 14.6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

### 14.7. Maritime Transport in Bulk according to IMO Instruments

### 14.8. Further Information

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## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

*0, not hazardous (according to the German Regulation AwSV)*

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances,*

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*Preparations and Articles: not applicable*

*Technical instructions on air quality:*

### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

### 15.3. Further Information

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

*Regulation (EC) 850/2004 - Persistent Organic Pollutants and amending Directive 79/117/EEC: not regulated / not applicable*

*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

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### 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*