



## **SECTION 1: Designation of the substance and/or mixture and the company**

### **1.1. Product identifier**

GLUE STICK grey 2 607 001 177

#### **Other trade names**

Bosch:

2 607 001 177

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

#### **Application of the substance/mixture**

Construction adhesive

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

Company name: Robert Bosch Power Tools GmbH  
PT/EEI

Location: 70538 Stuttgart / GERMANY

Website: [www.bosch-pt.com](http://www.bosch-pt.com)



**SECTION 2: Possible hazards**

**2.1. Classification of the substance or mixture**

**Classification as per Regulation (EC) No. 1272/2008 [CLP]**

The mixture is not classified as hazardous within the meaning of Regulation (EC) No. 1272/2008.

**2.2. Labelling elements**

**Information on labelling**

The product is not subject to labelling requirements according to EC directives/the relevant national legislation.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on components**

**3.2. Mixtures**

**Chemical characterisation**

Hazardous components CAS no. EC number REACH reg. no.	Concentration	Classification	Specific concentration limits (SCL), M-factors and ATE values	Additional information
Vinyl acetate 108-05-4 203-545-4 01-2119471301-50	0.1- < 1 %	Flam. Liq. 2, H225 Acute Tox. 4, inhalation, H332 Carc. 2, H351 STOT SE 3, H335	inhalation:ATE = 11.27 mg/l;vapour	EU OEL

For substances without a classification, there may be country-specific occupational exposure limits.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures General**

**information**

Remove soiled or soaked clothing immediately.

If person feels unwell, seek medical advice.

**After inhalation**

After inhalation of vapours or decomposition products in the event of an accident, take the person into fresh air.

In the event of symptoms, seek medical treatment.

**After skin contact**

If contact with the hot melt occurs, cool with water and consult a doctor.

**After eye contact**

If contact with the hot melt occurs, cool with water and consult a doctor.

**After swallowing**

Rinse out the person's mouth with plenty of water.

Do not induce vomiting.

Consult a doctor.

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

None known.

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing**

**media**



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### **Suitable extinguishing**

#### **media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical extinguishing media.  
Adapt extinguishing measures to surrounding fire.

#### **Unsuitable extinguishing media**

High-volume water jet.

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

Fire may produce:

Irritant/corrosive, flammable and toxic low temperature carbonisation gases.

**5.3. Fire-fighting information** Use self-contained breathing apparatus. Protective clothing.

#### **Additional Information**

Cool the endangered receptacle with water spray.

Fire debris and contaminated fire fighting water must be disposed of in accordance with the local regulations.

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## **SECTION 6: Accidental release measures**

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

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Wear personal protective equipment

### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

### **6.3. Methods and materials for containment and clean up**

Leave to solidify.

Pick up mechanically and keep in suitable containers for disposal.

**6.4. Reference to other sections** Refer to protective measures (see sections 7 and 8). For information about disposal, see Section 13.

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## **SECTION 7: Handling and storage**

### **7.1. Protective measures for safe handling**

#### **Hygiene measures:**

Wash hands before breaks and after work.

Do not eat, drink or smoke during work.

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

No special fire protection measures are necessary.

### **7.2. Conditions for safe storage, including any incompatibles**

#### **Requirements for storerooms and containers**

Keep container tightly closed in a dry, cool and well-ventilated place. Storeroom temperature between 5 °C/40 °F and 30 °C/85 °F.

#### **Additional information about storage conditions**

Keep away from foodstuffs, beverages and feed.

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### **7.3. Specific end uses**

Construction adhesive



**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Additional information about limits**

Occupational exposure limits

Valid for Germany:

Component [regulated substance group]	ppm	mg/m3	Value type	Short-term value category/comment	Legislation
Titanium oxide 13463-67-7 [GENERAL PARTICULATE MATTER LIMIT VALUE, INHALABLE FRACTION]			Category for short-term values	Category II: Substances with a resorptive effect.	TRGS (German Technical Rules for Hazardous Substances) 900
Titanium oxide 13463-67-7 [General particulate matter limit value, inhalable fraction]		10	OEL:	2 There is no reason to fear a risk of damage to the developing embryo or foetus when OEL and biological limit values are adhered to (see number 2.7).	TRGS (German Technical Rules for Hazardous Substances) 900
Titanium oxide 13463-67-7 [General particulate matter limit value, alveolar fraction]		1.25	OEL:	There is no reason to fear a risk of damage to the developing embryo or foetus when OEL and biological limit values are adhered to (see number 2.7).	TRGS (German Technical Rules for Hazardous Substances) 900

**Basis**

Limit values in the air at the workplace – air limit values

Component [regulated substance group]	ppm	mg/m3	Value type	Short-term value category/comment	Legislation
GENERAL PARTICULATE MATTER LIMIT VALUE, INHALABLE FRACTION  [General particulate matter limit value, alveolar fraction]  [General particulate matter limit value, inhalable fraction]		1.25  10	Category for short-term values  OEL:  OEL:	Category II: Substances with a resorptive effect.  There is no reason to fear a risk of damage to the developing embryo or foetus when OEL and biological limit values are adhered to (see number 2.7). 2 There is no reason to fear a risk of damage to the developing embryo or foetus when OEL and biological limit values are adhered to (see number 2.7).	TRGS (German Technical Rules for Hazardous Substances) 900  TRGS (German Technical Rules for Hazardous Substances) 900  TRGS (German Technical Rules for Hazardous Substances) 900

**Predicted no-effect concentration (PNEC):**

Name from list	Environmental compartment	Exposure time	Value				Comment
			Mg/l	Ppm	Mg/kg	Other	
Vinyl acetate 108-05-4	Freshwater		0.016 mg/l				
Vinyl acetate 108-05-4	Salt water		0.002 mg/l				



Vinyl acetate 108-05-4	Water (temporary release)		0.126 mg/l			
Vinyl acetate 108-05-4	Sediment (freshwater)				0.067 mg/kg	
Vinyl acetate 108-05-4	Sediment (salt water)				0.007 mg/kg	
Vinyl acetate 108-05-4	Soil				0.004 mg/kg	
Vinyl acetate 108-05-4	Sewage treatment plant		6 mg/l			
Vinyl acetate 108-05-4	Air					no identified risk
Vinyl acetate 108-05-4	Predator					no potential for bioaccumulation

**Derived no-effect level (DNEL):**

Name from list	Application area	Route of exposure	Effect on health	Duration of exposure	Value	Remarks
Vinyl acetate 108-05-4	Employee	Inhalation	Acute/short-term exposure – systemic effects		35.2 mg/m <sup>3</sup>	no identified risk
Vinyl acetate 108-05-4	Employee	Inhalation	Acute/short-term exposure – local effects		35.2 mg/m <sup>3</sup>	no identified risk
Vinyl acetate 108-05-4	Employee	Dermal	Long-term exposure – systemic effects		0.42 mg/kg	no identified risk
Vinyl acetate 108-05-4	Employee	Inhalation	Long-term exposure – systemic effects		17.6 mg/m <sup>3</sup>	no identified risk
Vinyl acetate 108-05-4	Employee	Inhalation	Long-term exposure – local effects		17.6 mg/m <sup>3</sup>	no identified risk

**Biological limit value (BLV):**

none

**8.2. Exposure controls**

**Appropriate engineering measures**

Ensure adequate ventilation, particularly in enclosed spaces.

**Protective and hygiene measures**

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke during use.

Avoid contact with skin, eyes and clothing.

Wash contaminated clothing before reuse.

**Eye/face protection**

Wear safety goggles with side protection (EN 166).

**Hand protection**

When handling the hot melt, wear heat-resistant protective gloves (EN 407)

**Body protection**

Protective clothing should conform to EN 14605 for liquid splashes or EN 13982 for dusts.

**Breathing protection**

In the event of dust formation, it is recommended to wear suitable respiratory protection with particle filter P (EN 14387).

This recommendation must be adapted to the local conditions.

**SECTION 9: Physical and chemical properties**

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



<b>Physical state</b>	<b>Solid</b>
<b>Delivery form</b>	<b>Cartridges</b>
<b>Colour</b>	<b>Grey</b>
<b>Odour</b>	<b>Mild, resinous</b>
<b>Melting point</b>	<b>84–92 °C (183.2–197.6 °F)</b>
<b>Solidification temperature</b>	<b>Not applicable, the product is a solid</b>
<b>Initial boiling point</b>	<b>Not applicable, polymeric solid, thermal decomposition above 250 °C</b>
<b>Flammability</b>	<b>The product is not flammable</b>
<b>Explosion limits</b>	<b>Not applicable, the product is a solid</b>
<b>Flash point</b>	<b>No method, no flash point up to 200 °C.</b>
<b>Autoignition temperature</b>	<b>Not applicable, the product is a solid</b>
<b>Decomposition temperature</b>	<b>Not applicable, substance/mixture is not self-reactive, no organic peroxide and does not decompose under the intended conditions of use</b>
<b>pH value</b>	<b>Not applicable, the product is insoluble in water</b>
<b>Viscosity (kinematic)</b>	<b>Not applicable, the product is a solid</b>
<b>Dynamic viscosity</b> (Brookfield; device: RVT; 160 °C (320 °F); Rot.freq.: 5 min <sup>-1</sup> ; spindle no.: 27; Conc.: 100 % product)	<b>12,500–27.000 mPa.S TE1002-208; Brookefield viscosity</b>
<b>Qualitative solubility</b> (20 °C (68 °F); solvent: Water)	<b>Insoluble</b>
<b>Partition coefficient: n-octanol/water</b>	<b>Not applicable</b>
<b>Vapour pressure</b> (20 °C (68 °F))	<b>Mixture</b>
<b>Density:</b> (20 °C (68 °F))	<b>&lt; 0.1 hPa</b>
<b>Relative vapour density</b>	<b>0.95–1.05 g/cm<sup>3</sup> No method</b>
<b>Particle properties</b>	<b>Not applicable, the product is a solid</b>
	<b>Not applicable, the product is not a powder</b>

**9.2. Miscellaneous**

No data available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No decomposition if stored and used as intended.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

None known if used as intended



**10.5. Incompatible materials**

No substances to be mentioned.

**10.6. Hazardous decomposition products**

No decomposition if used as intended.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

Toxicological data not available.

**Acute oral toxicity**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Species	Method
Vinyl acetate 108-05-4	LD50	3500 mg/kg	Rat	Not specified

**Acute dermal toxicity**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Species	Method
Vinyl acetate 108-05-4	LD50	7440 mg/kg	Rabbit	Not specified

**Acute toxicity – inhalation**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Test atmosphere	Duration of exposure	Species	Method
Vinyl acetate 108-05-4	Acute toxicity estimate (ATE)	11.27 mg/l	Steam			Expert evaluation
Vinyl acetate 108-05-4	LC50	4490 ppm	Steam	4 h	Rat	Not specified

**Corrosive/irritant effect on skin**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Species	Method
Vinyl acetate 108-05-4	Non-irritant	4 h	Rabbit	OECD Guideline 404 (Acute Dermal Irritation/Corrosion)

**Severe eye damage/irritation**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Result	Duration of exposure	Species	Method
Vinyl acetate 108-05-4	Non-irritant		Rabbit	OECD Guideline 405 (Acute Dermal Irritation/Corrosion)

**Sensitisation of airways/skin**



The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Result	Assay type	Species	Method
Vinyl acetate 108-05-4	Non-sensitive	Local mouse lymph node mapping	Mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Result	Study type/administration route	Metabolic activation/exposure time	Species	Method
Vinyl acetate 108-05-4	negative	Bacterial reverse mutation assay (e.g. Ames test)	With and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Vinyl acetate 108-05-4	Questionable	Intraperitoneal		Mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Carcinogenicity**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Result	Uptake route	Duration of exposure/frequency of treatment	Species	Gender	Method
Vinyl acetate 108-05-4	Carcinogenic	Local mouse lymph node mapping	104 w 6 h/d, 5 d/w	Rat	Male/female	OECD Guideline 453 (Combined Chronic Toxicity/Carcinogenicity Studies)

**Reproduction toxicity**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Result/value	Assay type	Uptake route	Species	Method
Vinyl acetate 108-05-4	NOAEL P 1000 ppm		Oral: Potable water	Rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

**Specific target organ toxicity – single exposure:**

No data available



**Specific target organ toxicity – repeated exposure:**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Result/value	Uptake route	Duration of exposure/frequency of uses	Species	Method
Vinyl acetate 108-05-4	NOAEL 5000 ppm	Oral: Potable water	3 m daily	Rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**Aspiration hazard:**

No data available.

**Practical findings**

**Other observations**

In the case of proper handling and in compliance with the generally applicable hygiene regulations, no health problems have been reported.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Toxicity (fish)**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Duration of exposure	Species	Method
Vinyl acetate 108-05-4	LC50	26 mg/l	48 h	Leuciscus idus melanotus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Vinyl acetate 108-05-4	NOEC	0.551 mg/l	34 d	Pimephales promelas	OECD 210 (fish early lite stage toxicity test)

**Toxicity (daphnia)**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Duration of exposure	Species	Method
Vinyl acetate 108-05-4	EC50	12.6 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Chronic toxicity to aquatic invertebrates**

No data available.



**Toxicity (algae)**

The mixture is classified using the calculation method based on the classified components contained in the mixture.

Hazardous components CAS no.	Value type	Value	Duration of exposure	Species	Method
Vinyl acetate 108-05-4	NOEC	5.96 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Vinyl acetate 108-05-4	EC50	12.7 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

**12.2 Persistence and degradability**

Hazardous components CAS no.	Value type	Value	Duration of exposure	Species	Method
Vinyl acetate 108-05-4	Readily biodegradable	Aerob	82–98 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified)

**12.3. Bioaccumulation potential**

No data available.

**12.4. Mobility in soil**

Hazardous components CAS no.	LogPow	Temperature	Method
Vinyl acetate 108-05-4	0.73	25 °C	Additional guidelines:

**12.5. Results of PBT and vPvB assessment**

As per Regulation (EC) No. 1907/2006 [REACH], this product does not contain any PBT/vPvB substances.

**12.6. Other harmful effects**

No data available.

**Additional notes**

Do not flush into surface water or sanitary sewer system.

**SECTION 13. Information on disposal**

**13.1. Waste treatment methods**

**Recommendation**

Can be burned in compliance with local regulations. Recycling is the preferred means of disposal.

**Product waste code**

080410 Waste from the production, preparation, distribution and application of coatings (paints, varnishes, enamel), adhesives, sealants and printing ink, waste from the production preparation, distribution and application of adhesives and sealants (including waterproofing products); adhesive and sealant waste other than those mentioned in 08 04 09

**Disposal of uncleaned packaging and recommended cleaning products**

Take empty containers to local recycling, recovery or waste disposal facilities.

Contaminated packaging is to be emptied optimally; it can then be recycled after appropriate cleaning.

Contaminated packaging must be disposed of using the same method as for the substance.



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## **SECTION 14: Transport information**

**Land transport (ADR/RID); sea transport (IMDG); air transport (ICAO-TI/IATA-DGR); inland waterway transport**

**14.1. UN number:**

Not a hazardous substance according to transport regulations.

**14.2 UN proper shipping name:**

Not a hazardous substance according to transport regulations.

**14.3. Transport hazard classes:**

Not a hazardous substance according to transport regulations.

**14.4. Packing group:**

Not a hazardous substance according to transport regulations.

**14.5. Environmental hazards**

Not a hazardous substance according to transport regulations.

**14.6. Special precautions for user**

Not a hazardous substance according to transport regulations.

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

Not a hazardous substance according to transport regulations.

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## **SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

EC 649/2012

Not applicable

REACH-SVHC for approval Art. 59

**National regulations**

Not applicable

German Hazardous Incident

Ordinance: Catalogue no.

Not subject to Ordinance.

acc. to StörfallVO: Quantity

thresholds: Technische

Anleitung Luft I (German

Does not fall under TA-Luft

Technical Instructions on Air

Quality Control I): Part:

Water hazard class: Status:

1 – low hazard to waters

Mixing rule according to the German Administrative Regulation on the Classification of Substances Hazardous to Waters (VwVwS) Annex 4, No. 3

**15.2. German Chemical Safety Assessment**



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No Chemical Safety Assessment was carried out for this substance.

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## **SECTION 16: Miscellaneous**

### **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

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation

Organization MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H335 Can irritate the respiratory system.

H351 Suspected of causing cancer.

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

### **Additional information**

Some of the information in headings 4 to 8 and 10 to 12 does not relate to the use and proper application of the product (see usage/specialist information) but relates to the release of large quantities in the event of accidents and irregularities.

The information solely describes the safety requirements of the product(s) and is based on the present state of knowledge.

The delivery specification can be found in the relevant product data sheets.

They do not constitute a guarantee of the properties of the described product(s) within the meaning of the statutory warranty regulations.

(n.a. - not applicable, n.b. - not determined)

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*(The data for the hazardous components was taken respectively from the latest version of the sub-contractor's safety data sheet.)*